## United States Department of the Interior National Park Service

2185

## National Register of Historic Places Registration Form

MOV 2 8 1989

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines* for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property				
istoric name Doniphan Cou				
ther names/site number Doniphan	County Waddell			
. Location			요하는 사람들이 있다면 하는 것이 되어 있었다. 원리 기가 있는 것이 있다는 기가를 받는 일본다.	
	neast of Doniphan on I	F.A.S. 28		not for publication
ty, town Doniphan			Lx	vicinity
ate Kansas code	KS county	Doniphan	code 43	zip code none
Classification				
wnership of Property	Category of Property		Number of Resource	ces within Property
] private	building(s)		Contributing	Noncontributing
public-local	district			buildings
public-State	site			sites
] public-Federal	structure structure			structures
	object			objects
불 하는 것 하는 그는 것을 모든 사람이다.			<u>- 1</u> -	Total
ame of related multiple property list al Truss Bridges in Kansas	ting:	보고 있는 것이 함께 함께 함께 함께 되었다. 사람들은 기계를 하고 있다.	Number of contribution listed in the Nation	iting resources previously at Register0
State/Federal Agency Certific	cation			
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Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)
Transportation: Road Related (Vehicular) Bridge	Transportation: Road Related (Vehicular): Bridge
7. Description	
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)
	foundation
Other: Waddell "A" Truss	walls
	roof
	other Metal: Wrought Iron or Steel
이는 이번 네트루터 살아 그는 뭐 모이라는 나이 없었다.	
그렇다는 이번 실었다는 그리고 불통함으로 하는데 하는데 다른 없다.	

Describe present and historic physical appearance.

The Doniphan County Waddell "A" truss, erected in ca. 1900, is a rivited pony truss. The single span is 36 feet long and 20 feet wide. The deck rises 14 feet above the stream bed.

The members of a truss bridge are designated either as chord members or web members. Chord members are those mainly defining the outlines of the structure and they are termed lower or upper chord members depending on whether they are found at the bottom or the top of the structure. Members between the chords are web members. They are called posts or ties if they sustain compression or tension respectively.

In the King Post truss, the end posts and top chord merge to form two sides, and the lower chord completes the triangle. The end post and top chord sides are in compression while the lower chord side is in tension. If diagonals and secondary verticals are added to the king post, it becomes a Waddell "A" truss. The secondary verticals are placed in tension and the diagonals act in compression. The Doniphan county bridge is fabricated out of channel stock. Connections are facilitated by the use of metal plates at connection points. All connections are rivited. The top chords, king post, diagonals and secondary verticals are made up of these channel beams. The bottom chord is single. One floor beam is attached to the king post and the sway brace. This in turn supports an I beam running the length of the panel. The wood decking is laid diagonally on top of these I beams. Few alterations have taken place and the bridge retains a high degree of its structural integrity.

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Certifying official has considered the significance of this property in relation to other properties:	
Applicable National Register Criteria	
Criteria Considerations (Exceptions)	
Engineering (a. 1900)	Significant Dates
Victoria de la constanta de la	Ca. 1900
요. 그 그는 사람들은 사용을 보았다면 되었다면 하는 것이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
Cultural Affiliation	
n/a	
Significant Person Architect/Builder n/a Unknown	
State cignificance of property, and justify criteria, criteria considerations, and green and periods of cignificance of	

The King Post is one of the oldest truss designs, serving well in many medieval buildings. As is evident they served as well as bridges into the 20th century. Its simplicity also establishes its limit. As the length increases so must the height, at the same ratio. It is therefore only practical in short spans. This was compensated somewhat by the development of a Waddell "A" Truss in the late 19th and early 20th century. The length of a Waddell could reach up to 75 feet.

No actual construction history of the Doniphan County Waddell "A" Truss has presently been located. Such structures were generally quite inexpensive and received little public notice. It was selected to be nominated because it is the only remaining example of the design in Kansas and it retains an outstanding degree of its integrity.

See continuation sheet

9. Major Bibliogra	phical References	
		그들은 전경하면 이렇게 하는 속 없는 그리고 하고, 전
		<pre>lding Companies, Washington, DC:   Occasional Publication 4, 1984.</pre>
	이렇게 되었다. 그 그렇게 하라셨다.	
David Weitzman New York:	, <u>Traces of the Past: A l</u> Charles Schribner's Sons	Field Guide to Industrial Archeology, s, 1980.
	Indiana Dept. of Highway	tant Posterity, DePauw University, ys, Indiana Dept. Natural Resources,
<u>in Virgin</u>	<u>ia</u> , Charlottesville: Vir	nic Inventory of Metal Truss Bridges rginia Highway & Transportation
Research (	Council, 1975.	See continuation sheet
Previous documentation	on on file (NPS):	그는 그래 얼마나에게 살았다. 종리리 어느를 하고 했다.
	ination of individual listing (36 CFR 67)	Primary location of additional data:
has been requeste		X State historic preservation office
	the National Register	Other State agency
	ned eligible by the National Register	Federal agency
	onal Historic Landmark	Local government
		University
	ic American Buildings	Other
Survey #		The state of the s
	ic American Engineering	Specify repository: KS State Historical Society
10. Geographical I	Data	
Acreage of property _1		
Acreage or property 2	COD CHILL OLC COLC	
LITAL Defendance		
UTM References A 1,5   3 2,3 7  Zone Easting	7 <u>4 0</u> <u>4 3 9 00 4 0</u> Northing	B
C L L L		
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	사이트 등 이 경험이다. 기업에 가장 경험을 받았다. 	See continuation sheet
Verbal Boundary Desc	cription	
The nominated p	roperty is located on th	e NW 1/4, SW 1/4, NE 1/4, SW 1/4,
section 3. town	ship 5 south, range 21 e	ast, on a tract measuring 36' x 20'
whose northeast	Corner is represented h	y the northeast corner of the
bridge. Beginn	ing at the northeast cor	ner the boundary proceeds 26'
southwest 20!	northwest 36! northoast	and 16' southeast to the point of
beginning.	nor chwest, so nor chease	See continuation sheet
acgimini.		See continuation sheet
Boundary Justification		
	크림 병상 그렇다는 그는 동안에 살았다.	일시간 일 때 그리고 됐다. 한 부모 2백 시 회교 이제 되는
The boundary in the nominated p	cludes only that area the roperty.	at is historically associated with
		이번은 전 제 원들이 있다. 맛요? 어느는
		See continuation sheet
11. Form Prepared	By	engan ang ang atau an mang atau ang Minasilia atau ang ang ang pang ang ang ang ang ina ang ang ang ang ang an Tang ang ang ang ang ang ang ang ang ang
	ry Jochims	
	sas State Historical Society	date <u>September 20, 1989</u>
	W. 10th	telephone (913) 296-3251
city or townTope		stateKSzip code _66612
		SIGIO EIP COUR

## United States Department of the interior National Park Service

## National Register of Historic Places Continuation Sheet

ection number Page	
SUPPLEMENTAR	Y LISTING RECORD
NRIS Reference Number: 8900218	Date Listed: 1/ <b>≰</b> 4/9∅
Doniphan County Waddell	Doniphan KS
Property Name	County Stat
Metal Truss Bridges in Kasas 18	3611939 MPS
Multiple Name	
	tions, exclusions, or amendments, ark Service certification included 1.
Beth Boland	Date of Action
Signature of the Keeper	Date of Action
Amended Items in Nomination:	
<pre>Item #7, Description: Material or steel; and 2) Wood.</pre>	ls include 1) Metal: wrought iron
Item #8, Significance: The appendingering only.	olicable area of significance is